

## 10644052cpg.txt

Set Items Description  
 -----  
 ? e au=krieg, ar?

Ref	Items	Index-term
E1	1	AU=KRI EG, ANDREAS H.
E2	1	AU=KRI EG, ANJA
E3	0	* AU=KRI EG, AR?
E4	1	AU=KRI EG, ARI BERT
E5	7	AU=KRI EG, ARTHUR
E6	1	AU=KRI EG, ARTHUR F.
E7	11	AU=KRI EG, ARTHUR F.
E8	64	AU=KRI EG, ARTHUR M
E9	251	AU=KRI EG, ARTHUR M
E10	2	AU=KRI EG, B
E11	249	AU=KRI EG, B.
E12	4	AU=KRI EG, B. L.

Enter P or PAGE for more

? s e1-e12

1	AU=KRI EG, ANDREAS H.
1	AU=KRI EG, ANJA
0	AU=KRI EG, AR?
1	AU=KRI EG, ARI BERT
7	AU=KRI EG, ARTHUR
1	AU=KRI EG, ARTHUR F.
11	AU=KRI EG, ARTHUR F.
64	AU=KRI EG, ARTHUR M
251	AU=KRI EG, ARTHUR M
2	AU=KRI EG, B
249	AU=KRI EG, B.
4	AU=KRI EG, B. L.

S1 592 E1-E12

? s s1 and tcgtcgtttgcgtttgtcggt  
 592 S1  
 2 TCGTCGTTTGCAGTTTGTCTT  
 S2 0 S1 AND TCGTCGTTTGCAGTTTGTCTT  
 ? s s1 and phosphodiester  
 592 S1  
 37178 PHOSPHODI ESTER  
 S3 13 S1 AND PHOSPHODI ESTER

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S4 11 RD (unique items)

? t s4/3, k/1-11

>>>KWC option is not available in file(s): 399

4/3, K/1 (Item 1 from file: 98)

DI ALOG(R) File 98: General Sci Abs

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02515609 H. W. WILSON RECORD NUMBER: BGSI 93015609

Modification of antisense phosphodiester oligodeoxynucleotides by a 5' cholesterol moiety increases cellular association and improves efficacy.

Krieg, Arthur M

Tonkinson, John; Matson, Sara

Proceedings of the National Academy of Sciences of the United States of America (Proc Natl Acad Sci U S A) v. 90 (Feb. 1 '93) p. 1048-52  
SPECIAL FEATURES: bibliogr. ISSN: 0027-8424

LANGUAGE: English

COUNTRY OF PUBLICATION: United States

Modification of antisense phosphodiester oligodeoxynucleotides by a 5' cholesterol moiety increases cellular association and improves efficacy.

Krieg, Arthur M

4/3, K/2 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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150258230 CA: 150(13)258230u PATENT

Combination motif of immune stimulatory oligonucleotides with improved activity

INVENTOR(AUTHOR): Uhlmann, Eugen; Krieg, Arthur M; Hanson, Douglas Charles; Samulowitz, Ulrike

LOCATION: USA

ASSIGNEE: Pfizer Inc.; Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH.

PATENT: PCT International; WO 200922215 A1 DATE: 20090219

APPLICATION: WO 20081 B2102 (20080805) \*US 2007PV964477 (20070813)

PAGES: 73pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

I PCR/8 + Level Value Position Status Version Action Source Office:

A61K-0031/7088 A I F B 20060101 H EP

C12N-0015/11 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR; DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

4/3, K/3 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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145291047 CA: 145(15)291047 PATENT

Immunostimulatory oligonucleotides with stabilized inter nucleotide linkage for treating cancer, allergy, asthma and infection

INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Ulrike; Vollmer, Joerg  
LOCATION: USA

ASSIGNEE: Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH

PATENT: PCT International; WO 200691915 A2 DATE: 20060831

APPLICATION: WO 2006US6778 (20060224) \*US 2005PV655931 (20050224)

PAGES: 93pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-000/ A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR;

TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

4/3, K/4 (Item 3 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)

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142462266 CA: 142(25)462266z PATENT

CpG immunostimulatory nucleic acids and oligonucleotides analogs for enhancing immune response of vaccines against infection, allergy and cancer

INVENTOR(AUTHOR): Uhlmann, Eugen; Vollmer, Joerg; Krieg, Arthur M; Noll, Bernhard O.

LOCATION: Germany

ASSIGNEE: Coley Pharmaceutical GmbH; Coley Pharmaceutical Group, Inc.

PATENT: PCT International; WO 200542018 A2 DATE: 20050512

APPLICATION: WO 2004US36240 (20041029) \*US 2003PV516193 (20031030)

PAGES: 113 pp. CODEN: PI XXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/39A; A61P-031/00B; A61P-037/08B; A61P-035/00B  
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

4/3, K/5 (Item 4 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)

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142372464 CA: 142(20)372464h PATENT

Compositions comprising immunostimulatory nucleic acid-lipopophilic conjugates and antigen or therapeutic agent for treating allergy, cancer, infection and autoimmune disease

INVENTOR(AUTHOR): Vollmer, Joerg; Krieg, Arthur M; Uhlmann, Eugen

LOCATION: USA

ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH

PATENT: PCT International; WO 200530259 A2 DATE: 20050407

APPLICATION: WO 2004US31748 (20040927) \*US 2003PV505977 (20030925)

PAGES: 120 pp. CODEN: PI XXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-047/48A  
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

4/3, K/6 (Item 5 from file: 399)  
DI ALOG(R) File 399: CA SEARCH(R)  
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140230578 CA: 140(15) 230578h PATENT  
Sequences of immunostimulatory oligonucleotides and therapeutic use for  
immune related diseases  
INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Urike; Vollmer, Jorg;  
Uhlmann, Eugen; Jurk, Marion; Lippford, Grayson; Rankin, Robert  
LOCATION: USA  
ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH  
PATENT: PCT International; WO 200416805 A2 DATE: 20040226  
APPLICATION: WO 2003US25935 (20030819) \* US PV404479 (20020819) \* US  
PV404820 (20020819) \* US PV429701 (20021127) \* US PV447377 (20030214)  
PAGES: 276 pp. CODEN: PI XXXD2 LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: C12Q 000/ A  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VC; VN; YU;  
ZA; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE;  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

4/3, K/7 (Item 6 from file: 399)  
DI ALOG(R) File 399: CA SEARCH(R)  
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138203655 CA: 138(14) 203655h PATENT  
Oligonucleotides containing stimulatory phosphorothioate motif and  
neutralizing motif for treating infections, allergies and cancers  
INVENTOR(AUTHOR): Krieg, Arthur M; Vollmer, Jorg; Uhlmann, Eugen  
LOCATION: USA  
ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH  
; University of Iowa Research Foundation  
PATENT: PCT International; WO 200315711 A2 DATE: 20030227  
APPLICATION: WO 2002US26468 (20020819) \* US PV313273 (20010817) \* US  
PV393952 (20020703)  
PAGES: 115 pp. CODEN: PI XXXD2 LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: A61K-000/ A  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;  
SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW AM; AZ;  
BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD;  
; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR;  
GB; GR; IE; IT; LU; MC; NL; PT; SE; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;  
GQ; GW; ML; MR; NE; SN; TD; TG

4/3, K/8 (Item 7 from file: 399)  
DI ALOG(R) File 399: CA SEARCH(R)  
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135018544 CA: 135(2) 18544w PATENT  
Immunostimulatory nucleic acid molecules

10644052cpg.txt  
INVENTOR(AUTHOR): Krieg, Arthur M; Kline, Joel N.  
LOCATION: USA  
ASSIGNEE: University of Iowa Research Foundation; Coley Pharmaceutical Group, Inc.; United States Dept. of Health and Human Services  
PATENT: United States; US 6239116 B1 DATE: 20010529  
APPLICATION: US 960774 (19971030) \*US 738652 (19961030)  
PAGES: 74 pp., Cont.-in-part of U.S. Ser. No. 738,652. CODEN: USXXAM  
LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: 514044000; A61P-037/06A

4/3, K/9 (Item 8 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
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133349133 CA: 133(25) 349133e PATENT  
Screening for immunostimulatory DNA functional modifiers  
INVENTOR(AUTHOR): Noll, Berhard O.; Schetter, Christian; Krieg, Arthur M  
LOCATION: Germany  
ASSIGNEE: CPG Immunopharmaceuticals GmbH; University of Iowa Research Foundation  
PATENT: PCT International; WO 200067023 A1 DATE: 20001109  
APPLICATION: WO 2000US11697 (20000428) \*US PV131830 (19990429) \*US PV186845 (20000303)  
PAGES: 95 pp. CODEN: PI XXD2 LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: G01N-033/50A; G01N-033/68B; C12Q-001/68B; C07K-014/47B  
DESIGNATED COUNTRIES: AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH;  
CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID;  
IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG;  
MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR;  
TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM  
DESIGNATED REGIONAL: GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG; ZW AT; BE;  
CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF;  
CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

4/3, K/10 (Item 9 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
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123274918 CA: 123(21) 274918x CONFERENCE PROCEEDINGS  
Uptake and localization of phosphodiester and chimeric  
oligonodeoxyribonucleotides in normal and leukemic primary cells  
AUTHOR(S): Krieg, Arthur M  
LOCATION: Department Internal Medicine, University Iowa, Iowa, IA, USA  
JOURNAL: Delivery Strategies Antisense Oligonucleotide Ther. EDITOR:  
Akhtar, Saghir (Ed), DATE: 1995 PAGES: 177-90 CODEN: 61RXAX LANGUAGE:  
English PUBLISHER: CRC, Boca Raton, FL

4/3, K/11 (Item 10 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
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119173523 CA: 119(17) 173523b JOURNAL  
Comparison of cellular binding and uptake of antisense phosphodiester,  
phosphorothioate, and mixed phosphorothioate and methyl phosphonate  
oligonucleotides  
AUTHOR(S): Zhao, Quyan; Matson, Sara; Herrera, Charles J.; Fisher, Eric;  
Yu, Hong; Krieg, Arthur M  
LOCATION: Coll. Med., Univ. Iowa, Iowa City, IA, USA

10644052cpg.txt  
JOURNAL: Antisense Res. Dev. DATE: 1993 VOLUME: 3 NUMBER: 1 PAGES:  
53-66 CODEN: AREDEI ISSN: 1050-5261 LANGUAGE: English  
? ds

Set Items Description  
S1 592 E1- E12  
S2 0 S1 AND TCGTCGTTTGACGTTTGTGTT  
S3 13 S1 AND PHOSPHODIESTER  
S4 11 RD (unique items)  
? e au=samulowitz, urrike?

Ref Items Index-term  
E1 4 AU=SAMULOW TZ, U  
E2 25 AU=SAMULOW TZ, ULRI KE  
E3 0 \* AU=SAMULOW TZ, URI KE?  
E4 1 AU=SAMULOWSKA, BARBARA  
E5 2 AU=SAMULOWSKI, W  
E6 1 AU=SAMULS S  
E7 1 AU=SAMULSEN, DM  
E8 3 AU=SAMULSKA EWA  
E9 2 AU=SAMULSKA H  
E10 2 AU=SAMULSKA H M  
E11 2 AU=SAMULSKA HANNA  
E12 2 AU=SAMULSKA J

Enter P or PAGE for more  
? e au=samulowitz, ulrik?

Ref Items Index-term  
E1 1 AU=SAMULOW TZ, M CHAEL  
E2 4 AU=SAMULOW TZ, U  
E3 0 \* AU=SAMULOW TZ, ULRI K?  
E4 25 AU=SAMULOW TZ, ULRI KE  
E5 1 AU=SAMULOWSKA, BARBARA  
E6 2 AU=SAMULOWSKI, W  
E7 1 AU=SAMULS S  
E8 1 AU=SAMULSEN, DM  
E9 3 AU=SAMULSKA EWA  
E10 2 AU=SAMULSKA H  
E11 2 AU=SAMULSKA H M  
E12 2 AU=SAMULSKA HANNA

Enter P or PAGE for more  
?  
? s e4  
S5 25 AU=SAMULOW TZ, ULRI KE  
? s s5 and phosphodiester  
25 S5  
37178 PHOSPHODIESTER  
S6 3 S5 AND PHOSPHODIESTER  
? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S7 3 RD (unique items)

? t s7/3, k/1-3

>>>KWC option is not available in file(s): 399

7/3, K/1 (Item 1 from file: 399)  
DI ALCG(R) File 399: CA SEARCH(R)

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150258230 CA: 150(13)258230U PATENT

Combination motif immunostimulatory oligonucleotides with improved activity

INVENTOR(AUTHOR): Uhlmann, Eugen; Krieg, Arthur M.; Hanson, Douglas Charles; Samulowitz, Ulrike

LOCATION: USA

ASSIGNEE: Pfizer Inc.; Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH.

PATENT: PCT International; WO 200922215 A1 DATE: 20090219

APPLICATION: WO 20081B2102 (20080805) \*US 2007PV964477 (20070813)

PAGES: 73pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0031/7088 A I F B 20060101 H EP  
C12N-0015/11 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;  
 BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES;  
 FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
 KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;  
 MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;  
 SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR DESIGNATED REGIONAL: AT; BE; BG; CH;  
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;  
 MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;  
 GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;  
 TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

7/3, K/2 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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145291047 CA: 145(15)291047 PATENT

Immunostimulatory oligonucleotides with stabilized internucleotide linkage for treating cancer, allergy, asthma and infection

INVENTOR(AUTHOR): Krieg, Arthur M.; Samulowitz, Ulrike; Vollmer, Joerg  
LOCATION: USA

ASSIGNEE: Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH

PATENT: PCT International; WO 200691915 A2 DATE: 20060831

APPLICATION: WO 2006US6778 (20060224) \*US 2005PV655931 (20050224)

PAGES: 93pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
 GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK;  
 LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ;  
 OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR;  
 TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH;  
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
 ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

7/3, K/3 (Item 3 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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140230578 CA: 140(15)230578H PATENT

Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases

INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Ulrike; Vollmer, Joerg; Uhlmann, Eugen; Jurk, Marion; Lipford, Grayson; Rankin, Robert  
LOCATION: USA

ASSIGNEE: Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH

PATENT: PCT International; WO 200416805 A2 DATE: 20040226

APPLICATION: WO 2003US25935 (20030819) \*US PV404479 (20020819) \*US PV404820 (20020819) \*US PV429701 (20021127) \*US PV447377 (20030214)

PAGES: 276 pp. CODEN: PI XXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12Q 000/00

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VC; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

? e au=volmer, j?

Ref Items Index-term

E1	1	AU=VOLLMER, J*
E2	1	AU=VOLLMER, J- Y
E3	0	* AU=VOLLMER, J?
E4	1	AU=VOLLMER, JAMES
E5	6	AU=VOLLMER, JAMES M
E6	16	AU=VOLLMER, JAMES M
E7	2	AU=VOLLMER, JAMES M CHAEL
E8	1	AU=VOLLMER, JANICE
E9	1	AU=VOLLMER, JANS JUERGEN
E10	2	AU=VOLLMER, JASON
E11	1	AU=VOLLMER, JEAN P.
E12	3	AU=VOLLMER, JEAN PIERRE

Enter P or PAGE for more

? e au=volmer, j org

Ref Items Index-term

E1	1	AU=VOLLMER, JOHN JOCHEN
E2	8	AU=VOLLMER, JOHN W
E3	24	* AU=VOLLMER, JORG
E4	1	AU=VOLLMER, JORG HEINZ
E5	1	AU=VOLLMER, JOSEPH
E6	2	AU=VOLLMER, JOSEPH G
E7	2	AU=VOLLMER, JOSEPH GERARD
E8	1	AU=VOLLMER, JOSEPH H
E9	1	AU=VOLLMER, JOSEPH HARRY
E10	3	AU=VOLLMER, JR., H. D.
E11	3	AU=VOLLMER, JUDITH
E12	15	AU=VOLLMER, JUERGEN

Enter P or PAGE for more

? s e3- e4

24	AU=VOLLMER, JORG
1	AU=VOLLMER, JORG HEINZ

S8 25 E3- E4

? s s8 and phosphodiester

25 S8

37178 PHOSPHODI ESTER

S9 1 S8 AND PHOSPHODI ESTER

? rd

&gt;&gt;&gt;Duplicate detection is not supported for File 393.

&gt;&gt;&gt;Duplicate detection is not supported for File 391.

&gt;&gt;&gt;Records from unsupported files will be retained in the RD set.

S10 1 RD (unique items)

? t s10/3, k/1

&gt;&gt;&gt;KWC option is not available in file(s): 399

10/3, K/1 (Item 1 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)

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138203655 CA: 138(14)203655h PATENT

Aigonucleotides containing stimulatory phosphorothioate motif and neutralizing motif for treating infections, allergies and cancers

INVENTOR(AUTHOR): Krieg, Arthur M; Vollmer, Jorg; Uhlmann, Eugen

LOCATION: USA

ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH.

; University of Iowa Research Foundation

PATENT: PCT International; WO 200315711 A2 DATE: 20030227

APPLICATION: WO 2002US26468 (20020819) \*US PV313273 (20010817) \*US PV393952 (20020703)

PAGES: 115 pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

? e au=uhlmann, eugen?

Ref Items Index-term

E1 565 AU=UHLMANN, EUGEN

E2 2 AU=UHLMANN, EUGEN DR

E3 0 \* AU=UHLMANN, EUGEN?

E4 1 AU=UHLMANN, EUGENE

E5 3 AU=UHLMANN, EUGENIE V

E6 8 AU=UHLMANN, EUGENIE V.

E7 2 AU=UHLMANN, EUGENIE VI CTORIA

E8 32 AU=UHLMANN, F

E9 8 AU=UHLMANN, F H

E10 2 AU=UHLMANN, F HERMANN

E11 114 AU=UHLMANN, F.

E12 3 AU=UHLMANN, F. H

Enter P or PAGE for more

? s e1-e3

565 AU=UHLMANN, EUGEN

2 AU=UHLMANN, EUGEN DR

0 AU=UHLMANN, EUGEN?

S11 567 E1-E3

? s s11 and phosphodiester

567 S11

37178 PHOSPHODI ESTER

S12 8 S11 AND PHOSPHODI ESTER

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S13 8 RD (unique items)

? t s13/3, k/1-8

>>>KWC option is not available in file(s): 399

13/3, K/1 (Item 1 from file: 393)

DI ALCG(R) File 393: Beilstein Database - Abstracts  
(c) 2008 Beilstein GmbH. All rights reserved.

Beilstein Abstract Id: 6219964

Title: Influence of the Type of Junction in DNA-3'-Peptide Nucleic Acid (PNA) Chimeras on Their Binding Affinity to DNA and RNA

Document Type: Journal Record Type: Abstract

Author: Greiner, Beate; Breipohl, Gerhard; Uhlmann, Eugen

Publication: Helvetica Chimica Acta (1999) Series: 82-12, 2151 - 2159 CODEN: HCACAV

Language: English

Abstract Language: English

Author: Greiner, Beate; Breipohl, Gerhard; Uhlmann, Eugen

... Abstract: duplex stabilization was determined to be in the order O-S  
ca. NH, reordering the phosphodiester bridge the most  
favored linkage at the DNA/PNA junction. The observed strong  
duplex destabilizing...

13/3, K/2 (Item 2 from file: 393)

DI ALCG(R) File 393: Beilstein Database - Abstracts  
(c) 2008 Beilstein GmbH. All rights reserved.

Beilstein Abstract Id: 5780737

Title: Nucleotide. XV. Synthesis and Properties of 2'-O-t-Butylidemethylsilyl-5'-O-monomethoxytritylribonucleoside-3'-phosphotriesters, Ausgangssubstanzen fuer Oligonucleotide-Synthesen

Document Type: Journal Record Type: Abstract

Author: Silber, Gunter; Flöckerz, Dieter; Varma, Rajendra Singh;  
Charubala, Ramamurthy; Uhlmann, Eugen; Pfeiderer, Wolfgang

Publication: Helvetica Chimica Acta (1981) Series: 64-5, 1704-1716 CODEN: HCACAV

Language: German

Abstract Language: English

Author: Silber, Gunter; Flöckerz, Dieter; Varma, Rajendra Singh;  
Charubala, Ramamurthy; Uhlmann, Eugen; Pfeiderer, Wolfgang

... Abstract: 15-23 with free HO-C(5') could be obtained by detritylation  
and the 3'-phosphodiester triethylammonium salts 24-32 by  
deblocking of the cyanoethyl and the 2,5-dichlorophenyl group  
...

13/3, K/3 (Item 1 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)

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150258230 CA: 150(13) 258230u PATENT

Combination motif immune stimulatory oligonucleotides with improved  
activity

INVENTOR(AUTHOR): Uhlmann, Eugen; Krieg, Arthur M.; Hanson, Douglas

Charles; Samuelowitz, Ulrike

LOCATION: USA

ASSIGNEE: Pfizer Inc.; Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH. H.

PATENT: PCT International; WO 200922215 A1 DATE: 20090219

APPLICATION: WO 20081B2102 (20080805) \*US 2007PV964477 (20070813)

PAGES: 73pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

I PCR/8 + Level Value Position Status Version Action Source Office:

A61K-0031/7088 A I F B 20060101

H EP

C12N-0015/11 A I L B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR; DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

13/3, K/4 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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150001273 CA: 150(1)1273u PATENT

PCR sequences of oligoribonucleotides for disease treatment

INVENTOR(AUTHOR): Vollmer, Joerg; Uhlmann, Eugen

LOCATION: Germany

ASSIGNEE: Colley Pharmaceutical GmbH.

PATENT: PCT International; WO 2008139262 A2 DATE: 20081120

APPLICATION: WO 20071B4593 (20071026) \*US 2006PV854585 (20061026)

PAGES: 110pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

I PCR/8 + Level Value Position Status Version Action Source Office:

C12N-0015/11 A I F B 20060101

H EP

A61K-0031/7088 A I L B 20060101

H EP

C07H-0021/02 A I L B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SV; SY; TJ; TM; TN; TR; TZ; DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC; MT; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

13/3, K/5 (Item 3 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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142462266 CA: 142(25)462266z PATENT

OpG immunostimulatory nucleic acids and oligonucleotide analogs for enhancing immune response of vaccines against infection, allergy and cancer

INVENTOR(AUTHOR): Uhlmann, Eugen; Vollmer, Joerg; Krieg, Arthur M; Noll, Bernhard O.

LOCATION: Germany

ASSIGNEE: Colley Pharmaceutical GmbH, Colley Pharmaceutical Group, Inc.

PATENT: PCT International ; WO 200542018 A2 DATE: 20050512

APPLICATION: WO 2004US36240 (20041029) \*US 2003PV516193 (20031030)

PAGES: 113 pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/39A; A61P-031/00B; A61P-037/08B; A61P-035/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

13/3, K/6 (Item 4 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)

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142372464 CA: 142(20)372464h PATENT

Compositions comprising immunostimulatory nucleic acid-lipopophilic conjugates and antigen or therapeutic agent for treating allergy, cancer, infection and autoimmune disease

INVENTOR(AUTHOR): Vollmer, Joerg; Krieg, Arthur M; Uhlmann, Eugen  
LOCATION: USA

ASSIGNEE: Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH

PATENT: PCT International ; WO 200530259 A2 DATE: 20050407

APPLICATION: WO 2004US31748 (20040927) \*US 2003PV505977 (20030925)

PAGES: 120 pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-047/48A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

13/3, K/7 (Item 5 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)

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140230578 CA: 140(15)230578h PATENT

Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases

INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Ulrike; Vollmer, Joerg; Uhlmann, Eugen; Jurk, Marion; Lippford, Grayson; Rankin, Robert  
LOCATION: USA

ASSIGNEE: Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH

PATENT: PCT International ; WO 200416805 A2 DATE: 20040226

APPLICATION: WO 2003US25935 (20030819) \*US PV404479 (20020819) \*US

PV404820 (20020819) \*US PV429701 (20021127) \*US PV447377 (20030214)

PAGES: 276 pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12Q 000/ A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VC; VN; YU;  
 ZA; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE  
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

13/3, K/8 (Item 6 from file: 399)  
 DI ALCG(R) File 399: CA SEARCH(R)  
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93114908 CA: 93(11)114908c JOURNAL

New improvements in oligonucleotide synthesis by use of the  
 p-nitrophenyl ester phosphate blocking group and its deprotection by DBU  
 or DBN

AUTHOR(S): Uhlmann, Eugen; Pfeiderer, Wolfgang

LOCATION: Fac. Chem., Univ. Konstanz, D-7750, Konstanz, Fed. Rep. Ger.

JOURNAL: Tetrahedron Lett. DATE: 1980 VOLUME: 21 NUMBER: 13 PAGES:

1181-4 CODEN: TELEAY ISSN: 0040-4039 LANGUAGE: English

? eau=lipoford, gr?

Ref	Items	Index-term
E1	44	AU=LI PFORD, GB
E2	3	AU=LI PFORD, GB*
E3	0	* AU=LI PFORD, GR?
E4	22	AU=LI PFORD, GRAYSON
E5	8	AU=LI PFORD, GRAYSON B
E6	63	AU=LI PFORD, GRAYSON B.
E7	2	AU=LI PFORD, GRAYSON BERNARD
E8	2	AU=LI PFORD, HEATHER
E9	1	AU=LI PFORD, HEATHER RICHTER
E10	3	AU=LI PFORD, J
E11	3	AU=LI PFORD, J.
E12	11	AU=LI PFORD, J. R.

Enter P or PAGE for more

? se1-e6

44	AU=LI PFORD, GB
3	AU=LI PFORD, GB*
0	AU=LI PFORD, GR?
22	AU=LI PFORD, GRAYSON
8	AU=LI PFORD, GRAYSON B
63	AU=LI PFORD, GRAYSON B.

S14 140 E1-E6

? ss14 and phosphodiester

140	S14
37178	PHOSPHODIESTER

S15 2 S14 AND PHOSPHODIESTER

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S16 2 RD (unique items)

? ts16/3, k/1-2

>>>KWC option is not available in file(s): 399

16/3, K/1 (Item 1 from file: 24)  
 DI ALCG(R) File 24: CSA Life Sciences Abstracts  
 (c) 2009 CSA. All rights reserved.

0002855016 IP ACCESSION NO: 6931820  
 Toll-like receptor 9 binds single-stranded CpG-DNA in a sequence- and pH-dependent manner

Rutz, Mark; Metzger, Jochen; Gellert, Tanja; Luppa, Peter; Lippford, Grayson B; Wagner, Hermann; Bauer, Stefan  
 Institute for Medical Microbiology, Hygiene and Immunology, Munich, Germany, [mailto:stefan.bauer@rz.tum.de]

European Journal of Immunology, v 34, n 9, p 2541-2550, 2004  
 PUBLICATION DATE: 2004

PUBLISHER: Wiley-VCH, Postfach 101161 Weinheim 69451 Germany,  
 [mailto:info@wiley-vch.de], [URL: http://www.wiley-vch.de/publications/]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0014-2980

FILE SEGMENT: Immunology Abstracts

Rutz, Mark; Metzger, Jochen; Gellert, Tanja; Luppa, Peter; Lippford, Grayson B; Wagner, Hermann; Bauer, Stefan

#### ABSTRACT:

... that TLR9 binds directly and sequence-specifically to single-stranded unmethylated CpG-DNA containing a phosphodiester backbone. TLR9-CpG-DNA interaction occurs at the acidic pH (6.5-5.0) found...

16/3, K/2 (Item 1 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)  
 (c) 2009 American Chemical Society. All rights reserved.

140230578 CA: 140(15)230578h PATENT

Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases  
 INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Urike; Vollmer, Joerg; Uhlmann, Eugen; Jurk, Marion; Lippford, Grayson; Rankin, Robert  
 LOCATION: USA

ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH  
 PATENT: PCT International; WO 200416805 A2 DATE: 20040226  
 APPLICATION: WO 2003US25935 (20030819) \* US PV404479 (20020819) \* US  
 PV404820 (20020819) \* US PV429701 (20021127) \* US PV447377 (20030214)

PAGES: 276 pp. CODEN: PI XXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12Q 000/10  
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
 LV; MA; MD; MG; MK; MN; MW; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VC; VN; YU;  
 ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM  
 DESIGNATED REGIONS: GH; GM; KE  
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW  
 AT; BE; BG; CH; CY; CZ; DE; DK;  
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG  
 ? e au=rankin, rob?

## 10644052cpg.txt

Ref	Items	Index-term
E1	7	AU=RANKI N, RN
E2	2	AU=RANKI N, RN*
E3	0	* AU=RANKI N, ROB?
E4	1	AU=RANKI N, ROBB E.
E5	23	AU=RANKI N, ROBERT
E6	4	AU=RANKI N, ROBERT A
E7	5	AU=RANKI N, ROBERT A.
E8	1	AU=RANKI N, ROBERT C.
E9	1	AU=RANKI N, ROBERT CARTER
E10	1	AU=RANKI N, ROBERT EDWARD
E11	1	AU=RANKI N, ROBERT JOHN, JR.
E12	8	AU=RANKI N, ROBERT L.

Enter P or PAGE for more

? s e1-e12

7	AU=RANKI N, RN
2	AU=RANKI N, RN*
0	AU=RANKI N, ROB?
1	AU=RANKI N, ROBB E.
23	AU=RANKI N, ROBERT
4	AU=RANKI N, ROBERT A
5	AU=RANKI N, ROBERT A.
1	AU=RANKI N, ROBERT C.
1	AU=RANKI N, ROBERT CARTER
1	AU=RANKI N, ROBERT EDWARD
1	AU=RANKI N, ROBERT JOHN, JR.
8	AU=RANKI N, ROBERT L.

S17 54 E1- E12

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S18 46 RD (unique items)

? s s18 and phosphodiester

46	S18
37178	PHOSPHODI ESTER

S19 1 S18 AND PHOSPHODI ESTER

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S20 1 RD (unique items)

? t s20/3, k/1

>>>KWC option is not available in file(s): 399

20/3, K/1 (Item 1 from file: 399)

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Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases

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